Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2019-12-10-24** **Date: 12/06/2019**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer's Reference	:	EE(Project)/Ynk Zone/WO/23/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	07-06-19
Customer ID	:	Culvert Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M15 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	12/06/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/06/2019	12/06/2019	151.37 X 150.17 X 151.86	22731	**8.954**	284.4	12.5	12.6
2	Culvert Concrete	M15	05/06/2019	12/06/2019	151.02 X 149.45 X 149.31	22570	**8.731**	280.5	12.4	
3	Culvert Concrete	M15	05/06/2019	12/06/2019	150.31 X 149.06 X 151.68	22406	**8.205**	291.2	13.0	

Note:
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FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

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Sig.....
Date.....

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date ID : CP-2019-12-10-24

Date: 03/07/2019

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.

Agency : Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.

Customer's Reference : EE(Project)/Ynk Zone/WO/23/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-06-19

Customer ID : Culvert Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Culvert Concrete	M15	05/06/2019	03/07/2019	151.35 X 149.81 X 151.59	22673	**8.917**	399.8	17.6	17.6
2	Culvert Concrete	M15	05/06/2019	03/07/2019	149.66 X 151.62 X 150.21	22692	**8.290**	406.7	17.9	
3	Culvert Concrete	M15	05/06/2019	03/07/2019	150.17 X 149.81 X 151.22	22497	**8.449**	386.6	17.2	

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2019-12-10-24**	**Date: 01-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.	
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-06-19	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of test	:	29-06-19	
Oven Dry Weight	:	11000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

Note:-

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AE(W-N-D)

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Bangalore

CIVIL PRO BANGALORE Sig..... Date.....

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2019-12-10-24**	**Date: 01-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.	
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-06-19	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	29-06-19	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

Note:-

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-12-10-24** **Date: 01-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	29-06-19
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	29-06-19

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

Note:-
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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2019-12-10-24** **Date: 11-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-19
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of test	:	09-07-19
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2019-12-10-24** **Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-19
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	09-07-19

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:-
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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2019-12-10-24**	**Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.	
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.	
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-07-19	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	09-07-19	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

Note:-

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Bangalore

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TESTS RESULTS ON STABILITY OF MIX

Lab ID	:	**CP-RW-2019-12-10-24** **Date: 12-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.
Customer Reference	:	EE(Project)/Ynk Zone/WO/23/19-20
Source of Sample	:	Hot Mix Plant, Bangalore
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-19
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	09-07-19

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

Note:-

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : **CP-RW-2019-12-10-24** **Date: 17-07-19**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.

Agency : Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.

Customer Reference : EE(Project)/Ynk Zone/WO/23/19-20

Source of Sample : Sample supplied by Agency

Date of Receipt : 15-07-19

Type of Mix : BC (Bituminous Concrete)

Date of test : 15-07-19

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.6	5.8
4	Average percentage	%	5.7	

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Bangalore

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Lab ID : **CP-RW-2019-12-10-24** **Date: 17-07-19**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.8	62.2	53-71
2.36	88	266	56.5	43.5	42-58
1.18	29	295	62.6	37.4	34-48
0.6	11	306	65.0	35.0	26-38
0.3	46	352	74.7	25.3	18-28
0.15	45	397	84.3	15.7	12-20
0.075	51	448	95.1	4.9	4-10

Note:-

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Bangalore

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Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID : **CP-RW-2019-12-10-24** **Date: 06-07-19**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.

Agency : Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.

Customer's Reference : EE(Project)/Ynk Zone/WO/23/19-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-07-19

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-1220(1978) (Reaffirmed-2004)

Date of test : 05-07-19

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	64	60 to 70
2	Softening Point, °C	51.2	Min. 40°C
3	Ductility, cm	98	Min. 75cm
4	Flash point, °C	246	Min. 220°C
	Fire point, °C	272	

Note:-

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Format No: CP/TF/01

TEST REPORT ON NP4 RCC PIPES

Lab ID	:	**CP-2019-12-10-24**	**Date: 04-07-19**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.	
Address	:	Project Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads of Royal Garden Layout in Ward no.07 and Improvements to Drains of Royal Garden Layout in Ward no.07, Byatarayanapura.	
Agency	:	Sri.Ramesh U, #171, 8th Cross CIL Layout, Near Narayana School, Cholonayakanahalli, RT Nagar Post, Bangalore-32.	
Customer's Referenc	:	EE(Project)/Ynk Zone/WO/23/19-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	08-06-19	
Sample Type/Size	:	NP4 RCC Pipe	
Reference to BIS codes	:	IS 458:2003	
Date of test	:	04-07-19	

DIMENSION ANALYSIS

Sl.no	Length mm	Diameter mm	Thickness mm	Requirement as per IS 458:2003
1	2498	1201	118	**Length : ± 25mm Diameter : ± 10mm Height : +6mm/-3mm**
2	2510	1200	120	
3	2498	1201	122	
4	2500	1202	120	
5	2500	1210	118	
6	2498	1200	120	
7	2497	1201	121	
8	2500	1200	120	
9	2500	1204	118	
10	2500	1200	120	

AE

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL PRO Sig..... Date..... BANGALORE

Lab ID : **CP-2019-12-10-24** **Date: 04-07-19**

COMPRESSIVE STRENGTH:

Sl. No.	cube		Area (mm^2)	Failure Load (KN)	Compressive strength N/mm^2	Remark
	D.O.C	D.O.T				
1	06-06-19	04-07-19	22150	789	35.6	Mix (M35) 28 Days
2	07-06-19	05-07-19	22350	791	35.4	
3	08-06-19	06-07-19	22400	786	35.1	

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

Any correction in the report will make this report invalid

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Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R RUDRAPRASAD
Authorized Signatory
Technical Manager

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

CIVIL Pro
Sig.....
Date.....
BANGALORE

****End of Report****